	Approved For Release 2009/09/04 : CIA-RDP81-01028	
TELLOFAX Z	CENTRAL INTELLIGENCE AGENCY	
	INFORMATION REPOR	
COUNTR	- Q ,	DATE DISTR. 14 MAY 52
SUBJEC		NO. OF PAGES 11 25X1
PLACE ACQUIRI	Chemical Research at the L.E.N.I (KHIMCAS) Institute, Leningrad	NO. OF ENCLS. / 25X1
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SECRET

25X1

SECURITY INFORMATION

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FORM NO. 51-4F 25 YEAR RE-REVIEW

(20)

APPENDICES III.

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A - F no information
G Scientific Order of Battle, see attached
H Chemical Research, see attached.

ANNEXURES IV.

A Sketch map (L.E.N.I.) Institute

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Appendix	aC a	
		25X

SCIENTIFIC ORDER OF BATTLE

ESTABLISHMENTS

L.E.N.I. Institute, LENINGRAD

25X1 In 1947 the Institute in was known as KHIMGAS, a scientific institute belonging to LENINGRAD 25X1 a Ministry, thought to have been called "Fuel Gas". In 1950 25X1 a re-organization took place whereby the Institute became known as L.E.N.I. 25X1 N.I. means Scientific Institute. At that time it became part of the Petroleum Ministry. At the same time a further Institute in LENINGRAD, known as the "High Pressure". Institute was amalgamated with the L.E.N.I. and there was thereafter a general flow of personnel from the High Pressure Institute to the L.E.N.I. The L.E.N.I. is located on the south-east outskirts of LENINGRAD at FARFOROVAYA. It consists of two main buildings and a yard on the northeastern side of the LENINGRAD-MOSCOW railway directly opposite FARFORGVSKY post railway station. A location sketch also showing the Institute layout is given at Annexure 'A'. PERSONNEL In 1947 the Director of the Institute was Simon Sakharovich LEVIN, but in the same year he was re-appointed a departmental chief and his place taken by SHITKOV, who had formerly held some other appointment in the same Institute. He was assisted by an administrative chief 25X1 25X1 there were four main departments in the Institute: LEVIN, had one which was responsible for hydrogenation work; RUDKOVSKI, had a department responsible for Oxosynthesis; KAGAN, had a department for hydro-carbon synthesis, and there was a further department responsible for work on aromatisation 25X1 RUDKOVSKI's department had two sub-departments - one of which was controlled by Madam KETSLER.

German Specialists at ORANIENBURG

25X1 specialists at that location were divied into three subgroups. The first group is one which apparently did most of the work, and this work, was entirely to do with torpedoes 25X1 with hydrogen peroxide propulsion units. That group consisted of Kurt LAWITSCHKA (who was in charge), Dipl Ing. ABERMETH, who does design work, together with Dipl Ing LOEWIS, SCHOLTZ, who worked on jet regulator control, and MISLOWICZECK. Connected with their work was a concrete bunker which covered a floor space of 15 x 15 metres. They used hydrogen peroxide, hydrazine hydrate and a copper complex salt used to effect the decomposition

SECRET 25X1 SECURITY INFORMATION -4-Appendix 'G' (Cont'd) of hydrogen peroxide, hydrazine hydrate and a copper complex salt used to 25X1 effect the decomposition of hydrogen peroxide. 25X1 were stored in railway tank wagons and supplied as used. The second group at ORANIENBURG consisted of 3 engineers called KOLB (?), GRAF and JON, who

were carrying out work connected with sea mines (possibly accustic The third group was the high frequency group. consisted of: GLOEDER, Dipl. Ing. MARTIN, who did work on fuses (possibly magnetic and acoustic), completed by 1948, and thereafter, work of measuring equipment such as oscillographs; GREFE (physicist); Professor LUEBKE, who worked with a large indoor water testing tank, possibly carrying out acoustic measurements; Ing. SEDLER; Ing. HILDEBRANDT. Outside the above grouping system, Dr. Glemke, a mathematician, carried out calculations which Dr. POHL believed included torpedo courses: GLEMKE did not, apparently belong to the torpedo group.

Specialists at G. I.P.Kh.

the three remaining specialists at the G.I.P.Kh., Dr SMEYKEL. OTTO and PEINZE had been posted to RUBEZNOYE.

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they may be serving a period of time during which they are not allowed to give information of their work to other people. The reason for this assumption is not based upon material evidence, but simply called to mind in association with a procedure whereby IG Farben imposed a "Karrenzzeit" in their chemist's contracts (a period of time whereby employees are obliged to maintain strict silence regarding their activities with the firm after they ceased to be employed by them).

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Appendix "H"

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CHEMICAL RESEARCH

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Organic Laboratory (as opposed to the organic department of the Main Research aboratory). This North laboratory consisted of a low pressure lab, high		atory (as opposed to the organic department of a	low pressure lab. high
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- The recovery of ethanol by hydrogenation, for which 7 high pressure chambers were constructed at LEUNA.
- 3) The preparation of normal propanol: this work was not completed and left in favor of other work.
- The prepation of contacts for methanol and propionol oxidiation.
- The recovery of acetic acid using carbon monoxide and methanol.
- 6) The preparation of methyl acetate.

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2. Transfer to LENIKGRAD

On the 22nd October 1946 eleven LEUNA WERK chemists were transported to LENINGRAD - the same time as other specialists were taken to the USSR. The group who arrived at SESTRORETSK (near LENINGRAD) was as follows:-

Dr. ECKOLDT

In the SMA group at LEUNA where he wrote reports.

Dr. KAUFMANN

At LEUNA; Work on the hydrogenation of coal.

Dr. SMEYKAL

At LEUNA; engaged on pharmaceutical work.

Dr. von der HORST-

At LEUNA; worked on propionic acid nitrile.

Dr. PEINZE

Was the LEUNA manager of the methanol and

amine factory.

Dr. GETSSLER

In the LEUNA SMA group doing nitration work. Head of LEUNA material testing department.

-Dr. WYSZOMRISKY Dr. POHL

Organic research etc (as in para.1)

Herr LORENZ

General experimental work in the main laboratory

at LEUNA

Herr FRIESE

MOSS BIERBAUM/AUSTRIA: Responsible for Instruments

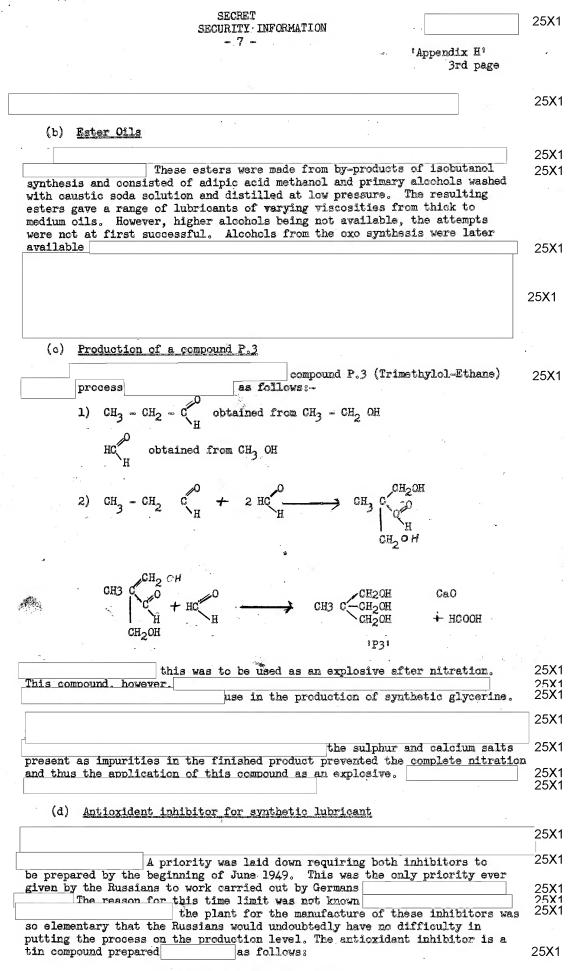
Manager

Herr OTTO

LEUNA design office

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'Appendix H'

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para tetiary isobutyl phenol.

di-isobutyl diphenyl sulphide

$$0 + S = 0 + 2 N_0 0 + 3 H_2 0$$

$$0 + 2 H_3 0 + 3 H_3 0$$

$$0 + 2 H_3 0$$

sodium phenolate of di-isobutyl

Inhibitor

The application of this inhibitor was to make a 50% solution of it in SS:906 synthetic lubricant taken from the first run. This solution was then mixed with SS 906 synthetic lubricant giving a solution percentage of 0.02% proportion of the mixure. Besides having the effect of an antioxidant preventing the formation of gummy substances, the inhibitor had the effect of giving a higher viscosity index, with a depressed power print.

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(e) Anti-corrosion inhibitor for synthetic lubricant

The preparation of an anti-corrosion inhibitor which had the LEUNA WERK trade name of MESULFOL was included in the priority with the antioxidant described in para.(d) above. MESULFOL, besides being an anticorrosion inhibitor provided increased lubrication efficiency for higher pressures and applied as a component of weapon oil. In Germany weapon oil was a mixture of mineral oils, ester oils and a natural oil extracted from pigs claws. This natural oil was replaced in the mixture by SS 906 synthetic lubricant which had 4% of MESULFOL inhibitor in it. The preparation of this inhibitor is as follows:-

Iso-amyl-alcohol

Iso-amylxanthogenate potassium

(f) Adipic Acids

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LEUNA WERK there was a plant for the production of adipic acid which the Russians had dismantled and taken to Russia complete with the personnel operating it. erected in DZERZHINSK.

The process was where vinyl, cresyl and para-isobutyl phenol are oxidised

25X1

The process was where vinyl, cresyl and para-isobutyl phenol are oxidised to adipic acids.

However, it appears that the Russians did not seem to have any interest in adipic acid outside nylon production

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(g) <u>Hydrogenation Group</u>

the Hydrogenation group consisted of KAUFMANN and LORENZ. Since coming to the Institute these two had been employed at the re-erection of a LEUNA WERK twin-stall hydrogenation plant for the hydrogenation of tar. At this work they did no active research, it consisted merely of actual reconstruction, calculations and measurements

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conducted in connection with the running of the plant. etc.

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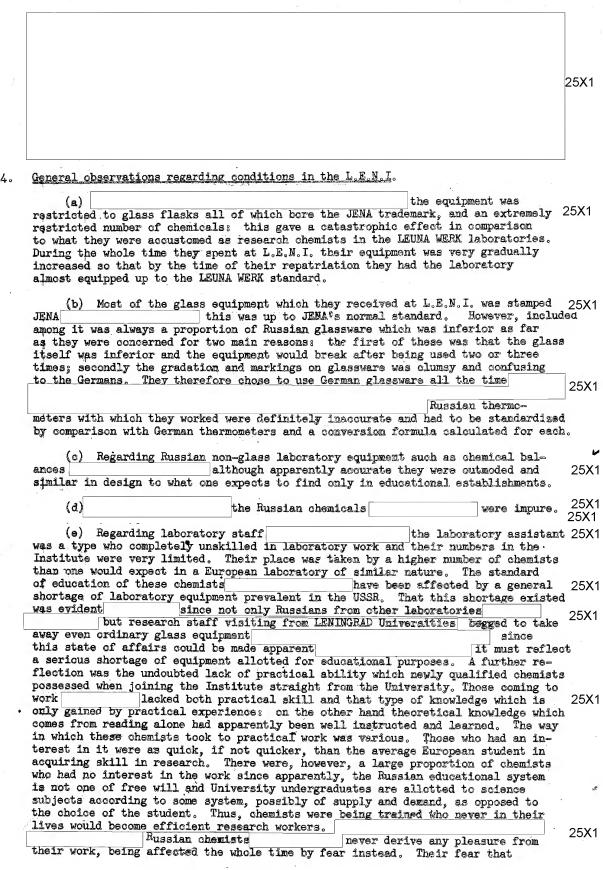
months work was on the partial hydrogenation of naphthol in an autoclave. This included the preparation of nickel, chromium and Atkin's contacts.

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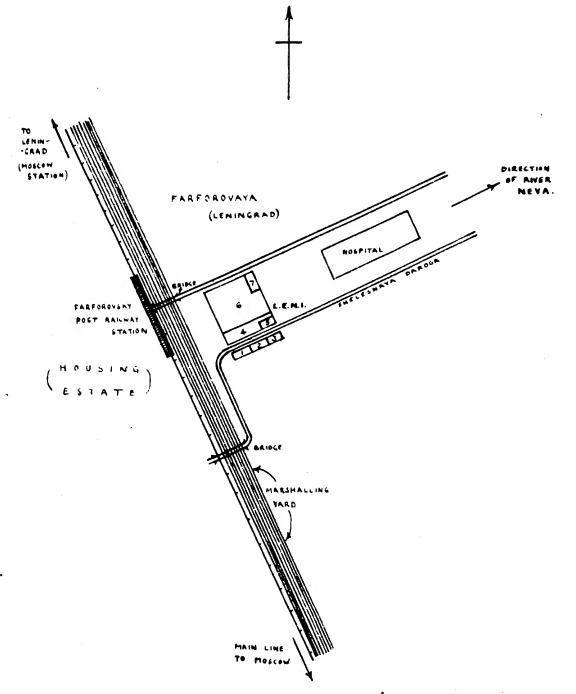
Appendix Horage

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things might be seen to have gone wrong by their superiors is sufficient to guide them away from any measure of interest to complete a research assignment. A small illustration supposes that a distillation apparatu25X1 breaks durings its operation in the laboratory. The Russians are courageous enough to approach the broken apparatus in order to put cut the fire etc., but then their next instinct, instead of opening all the doors and windows to let out the fumes as one would expect, is to rush madly to all the doors and windows and lock them in order to have the whole thing tidied up before their superiors find out anything about it.

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ANNEXURE 'A'

OF THE LE.N.I.

(FORMERLY 'NHIMGAS' INSTITUTE)

KEY (LENI

INSTITUTE BUILDING 1 - BOILER HOUSE & POWER PLANT
2 - ACCOMMODATION FOR RUSSIANS 25X
3 - ADMINISTRATION OFFICES
INSTITUTE 4 - LABORATORIES (3 STOREYS)
5 - TECHNICAL ROOMS (4RUUND)
INSTITUTE 6 - YARD WITH FITTING SHOPS
GROUNDS 7 - HYDROGENATION PLANT (EX LEUNA)